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## What is claimed is:

1	A solder joint configuration at and near an
2	intermetallic layer that disrupts, constrains, or lengthens
3	cracking at said intermetallic boundary, thereby increasing
4	fatigue life of the solder joint, comprises a pad having an
5	irregular boundary layer.

- 2. Configuration at an intermetallic boundary that disrupts, constrains, or lengthens cracking at said intermetallic boundary, thereby increasing fatigue life of the solder joint, comprises a solder strip having a serpentine boundary layer.
- 1 (A) 3. A solder joint configuration at an intermetallic 2 boundary that disrupts, constrains, or lengthens cracking at 3 said intermetallic boundary, thereby increasing fatigue life 4 of the solder joint, comprises a pad having an 5 interdigitated boundary layer.

1	4. A solder joint configuration at an intermetallic
2	boundary that disrupts, constrains, or lengthens cracking at
3	said intermetallic boundary, thereby increasing fatigue life
4	of the solder joint comprising a pad having a curved
5	boundary layer.
1	5. A solder joint configuration at an intermetallic
2	boundary in accordance with claim 4, wherein said curved
3	boundary layer further comprises a substantially continuous
4	structure.
1	6. A method of soldering that disrupts, constrains, or
2	lengthens cracking at an intermetallic boundary, whereby
3	fatigue life of a solder joint is increased, comprising the
4	steps of:
5	a) placing solder at a pad; and
6	b) configuring said solder to provide an
7	irregular boundary layer during bonding at
8	said page in order to increase fatigue life of
9	said solder joint.

1	7. A method of soldering that disrupts, constrains, or
2	lengthens cracking at an intermetallic boundary, whereby
3	fatigue life of a solder joint is increased, comprising the
4	steps of:
5	a) placing solder at a pad; and
6	b) configuring said solder to provide a
7	serpentine boundary layer during bonding at
8	said pad in order to increase fatigue life of
9	said solder joint.
1	8. A method of soldering that disrupts, constrains, or
2	lengthens cracking at an intermetallic boundary, whereby
3	fatigue life of a solder joint is increased, comprising the
4	steps of:
5	a) placing solder at a pad; and
6	b) configuring said solder to
7	provide a digitated boundary layer
8	during bonding at said pad in order to
9	increase fatigue life of said solder joint.
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